

<< Linux Documentation >>

-- Description --

The linux machine serves as a proxy data gathering server for PRTG connecting to each IP address added as a cronjob via telnet, gathering location, Signal and Beam every 5 minutes as well as gathering ping and packet loss data every 30 seconds. Data pulled from each IP address is stored in a MYSQL database (e3db) table (e3tb). Custom PRTG sensors are used to pull the gathered data from the MYSQL database and update the values and messages for each sensor.

Project files are located inside /home/e3admin/e3systems/

```
[e3admin@localhost e3systems] pwd  
/home/e3admin/e3systems/
```

```
[e3admin@localhost e3systems] ls  
E3systems.sh readme.txt logs documentation scripts sensors css
```

Add a new IP address by running the following custom command:

ip_add ipaddress username password

```
[e3admin@localhost] ip_add 216.170.180.93 e3admin Pa$$w0rd
```

Remove an IP address by running the following custom command:

ip_del ipaddress

```
[e3admin@localhost] ip_del 216.170.180.93
```

-- End of Linux Documentation --

<< PRTG Documentation >>

-- Adding a Device --

- 1 - Enter a desired name for device under "Device Name".
- 2 - Select "Connect using IPv4" under "IP Version".
- 3 - Under "IP Address/DNS Name", enter the linux server's IP address.
- 4 - Set "Sensor Management" to "Manual (no discovery)".
- 5 - Make sure "Credentials for Linux/Solaris/Mac OS (SSH/WBEM) Systems" is selected.
- 6 - Click "Continue" to go to add the new device.

-- Adding a Custom Sensor --

- 1 - Under "Monitor What?" select "Custom Sensors".
- 2 - Under "Target System Type" select "Linux/MacOS".
- 3 - Select "SSH Script Advanced" and click "Add This".
- 4 - Enter desired sensor name under "Sensor Name".
- 5 - Select relevant script from drop down list under "Script".
- 6 - Enter the IP address that will be monitored under "Parameters".
- 7 - Click "Continue" to go to add the new custom sensor.

-- Adding a Custom Map Object --

- 1 - Select the sensor created from the previous steps from the "Device Tree" on the left side.
- 2 - Select the "Status Icons" list from the "Properties" section on the right side.
- 3 - Find the desired custom map object "custom_message_e3systems" and drag to the map.

-- Instructional screenshots provided on next pages --

-- Adding a Device --

[illegible]

-- Adding a Custom Sensor --

Home

Devices

Libraries

Sensors

Alarms

Maps

Reports

Logs

Tickets

Setup

Devices

VSAT Poller

Device

Add Sensor (Step 1 of 2)

Add Sensor to Device Device [5.10.18.229] (Step 1 of 2)

SEARCH

8 Matching Sensor Types

MONITOR WHAT?

Availability/Uptime

Bandwidth/Traffic

Speed/Performance

CPU Usage

Disk Usage

Memory Usage

Hardware Parameters

Network Infrastructure

Custom Sensors

TARGET SYSTEM TYPE?

Windows

Linux/macOS

Virtualization OS

File Server

Email Server

Database

Cloud Services

TECHNOLOGY USED?

Ping

SNMP

WMI

Performance Counters

HTTP

SSH

Packet Sniffing

NetFlow, sFlow, jFlow

Powershell

Push Message Receiver

PRTG Cloud

MATCHING SENSOR TYPES

SNMP Custom

Monitors a numerical value returned by a specific OID using SNMP

|||||

Add This ▶

SNMP Custom Advanced BETA

Monitors numerical values returned by up to 10 specific OIDs using SNMP

|||||

Add This ▶

SNMP Custom String

Monitors a string returned by a specific OID using SNMP

|||||

Add This ▶

SNMP

Monitors a string returned by a specific OID using SNMP

|||||

Add This ▶

SSH Script Advanced

Connects to a Linux/Unix system using SSH and runs a custom script which returns XML or JSON

|||||

Add This ▶

< Cancel sensor creation

Haven't found what you need? Find more custom sensors online or send your feedback to Paessler!

-- Adding a Custom Sensor continued on next page --

Add Sensor to Device Device [5.10.18.229] (Step 2 of 2)

BASIC SENSOR SETTINGS

Sensor Name	Location
Parent Tags	
Tags	sshscript x
Priority	★★★★★

SENSOR SETTINGS

Note	Important: The script is executed on the device the sensor is created on. The working directory for the script is the scripts parent directory on the target Linux/Unix system.
Script	prtg_latlong.sh v
Parameters	241.170.180.87
Mutex Name	

SSH SPECIFIC

Connection Timeout (Sec.)	60
Shell Timeout (Sec.)	5
SSH Port	<input checked="" type="radio"/> Inherit port number from parent device (default) <input type="radio"/> Enter custom port number
SSH Engine	<input checked="" type="radio"/> Inherit from parent device (default) <input type="radio"/> Default <input type="radio"/> Compatibility Mode (deprecated)
Result Handling	<input checked="" type="radio"/> Discard sensor result (default) <input type="radio"/> Write sensor result to disk (Filename: "Result of Sensor [ID].txt") <input type="radio"/> Write sensor result to disk (Filename: "Result of Sensor [ID].txt") in case of error

SCANNING INTERVAL

☒ inherit from Device (Scanning Interval: 60 seconds, Set sensor to ...)

Continue >	Cancel
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-- Adding a Custom Map Object --

Map NOC 1

The screenshot displays the PRTG Map Designer interface for 'Map NOC 1'. The interface is divided into three main sections: the 'Device Tree' on the left, a central map view, and the 'Properties' panel on the right.

Device Tree: A hierarchical list of devices. The 'Root' node contains 'VSAT Poller', 'Probe Device', 'MY Hadia', 'Sea Eagle', 'Rockstar', 'Victoria', 'Prana', 'Golden Eagle', 'Phoenix', 'My Hadia (TEST)', 'Limitless', 'Were Dreams', 'Saint Nicolas', 'Sunrays', 'Maraya', 'Legenda-41M', and 'Vicky 72.6M'. The 'My Hadia (TEST)' node is expanded, showing 'Ping', 'Location', 'Signal Level' (highlighted with a red box), and 'Beam'.

Map View: A Google Map showing a location in Portugal, with labels for 'Pontevedra' and 'Lisboa'. The map is titled 'Map' and 'Satellite'.

Properties Panel: A list of properties for the map object. The 'Status Icons' property is expanded, showing a list of status icons. A preview of the 'Rx SNR 12.9 dB' status icon is displayed. Other properties include 'Default Icons A', 'Default Icons B', 'Icons A', 'Icons A (Static)', 'Icons B', 'Icons B (Static)', 'Icons C', 'Icons C (Static)', 'Static Images', 'Status and Minigraph (On white)', 'Status and Minigraph Bold (On White) XL', 'Status and Last Value (On White)', 'Status and Last Value (On White) XL', 'Minigraph only', 'custom_message_e3systems', 'Primary Channel Gauge Small', 'Primary Channel Gauge', 'Channel Gauges Small', 'Cluster', 'Data Tables', and 'Devices'.

-- End of PRTG Documentation --